



King County

Department of Local Services
Road Services Division

April 8, 2024

TO: Stacy Graves, Project/Program Manager, Permitting Division

FM: Tanner Harris, Environmental Scientist, Environmental Unit

RE: Construction Hours Variance Request – 244th Avenue NE Slide Repair Project #1140858

King County Department of Local Services, Road Services Division (Roads) is requesting a Construction Hours Variance to work outside of normal hours of operation per King County Code (KCC) 12.86.550. The following information is provided in support of this request.

Project: 244th Avenue NE Slide Repair Project #1140858

Applicant/Contact: Tanner Harris
Environmental Scientist III, Environmental Unit
Road Services Division, King County Department of Local Services
155 Monroe Avenue NE (Mailstop: RSD-LS-0100)
Renton, WA 98056

Project Location: The project is located on 244th Avenue NE, approximately 600 feet southwest of NE Redmond-Fall City Road (State Route [SR] 202), in northeastern unincorporated King County. The project area occurs in the SE quarter of Section 11 and the SW quarter of Section 23 in Township 25N and Range 06E, Willamette Meridian.

Project Narrative: A slide occurred in early February 2020 approximately 600 feet southwest of NE Redmond-Fall City Road (SR 202). The slide caused up to two feet of vertical settlement in the outer shoulder of the roadway along a 100-foot-long gabion basket retaining wall that was installed after a previous failure at the same location. The existing gabion basket wall is generally intact, but some minor separation occurred between the second and third set of baskets at the upper end of the wall, and the central section is slightly bulging outward. The project will replace the damaged gabion basket wall with an approximately 120-foot-long soldier-pile wall constructed on the upslope side of the gabion basket wall. The gabion basket wall will be removed and the area stabilized by the installation of erosion control measures and native trees and shrubs. The project will also repair a small area of roadway damaged by the slide; however, this work will not result in an increase in roadway capacity.

The start date for the work is anticipated to be on or around June 24, 2024. The work is anticipated to take approximately 69 calendar days to reach substantial completion. Installation of the soldier pile wall will require up to a 40-day full road closure; the remainder of the project will be constructed under a partial closure. The work will be completed by a contractor. No pile driving is needed for the soldier pile wall but may be required for installation of temporary sheet pile shoring. Standard equipment will be needed to complete the project, see the attached equipment table as a reference.

Variance Requested: To expedite project work and maximize efficiency during the full road closure, Roads is requesting a Construction Hours Variance for up to 14 days within the construction period, from approximately June 24 to August 31, 2024.

Justification for Variance:

- 244th Avenue NE is a heavily traveled urban major collector that provides a connection between the City of Sammamish and SR 202.
- The project will provide a permanent solution to stabilize the roadway and ensure adequate and safe access for residents, emergency personnel, and other services.
- Roads anticipates that allowing work outside of normal construction hours will help decrease the total number of working days that the project is in construction and minimize the number of days the road will be closed. This may reduce economic hardship to local area residents if the closure prevents or delays them from traveling to work, or from accessing childcare or other services necessary for work.
- Allowing work at night/early morning is anticipated to have less impact on the public because there will be less traffic on the road during this time. Less traffic minimizes safety issues and traveling inconvenience for the public.
- Three homes and a local business are located within 500 feet of the project location and may be affected by project noise (see the attached map).
- No known sensitive receivers are located within 500 feet of the work area.

Mitigation Measures: Per KCC 16.82.105.B.6, proposed measures are provided to minimize noise impacts to avoid health and safety hazards outside of normal hours of operation. The forested conditions and topography surrounding the project are anticipated to provide additional sound attenuation. To further reduce noise impacts, the following mitigation measures will be implemented:

- Specific mitigation measures listed in attached equipment table will be implemented to the extent feasible.
- All vehicles will be equipped with backup warning devices, except pure tone devices, to the extent allowed or required by the Washington State Department of Labor and Industries. Workers may use back-up observers in lieu of back-up warning devices for all equipment except dump trucks in compliance with WAC Chapter 296-155-610 and 296-155-615. Workers shall use back-up observers and back-up warning devices, except pure tone devices, for dump trucks in compliance with WAC Chapter 296-155-610.
- All trucks shall have well-maintained bed liners as inspected and approved by the Engineer.
- Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.
- All equipment shall be properly muffled and comply with all applicable local, state, and federal regulations.
- Music, loud voices, radios, and other such amplifying equipment shall not be used in a manner that is heard outside the immediate work area.
- A copy of the construction hours variance shall be kept on the project site at all times.
- A 24-hour complaint number (listed below), as well as a list of designated contact persons, shall be provided for the purpose of forwarding complaints.
- Roads will provide additional verbal and/or written notice to parcel owners within approximately 500 feet that might be potentially affected by noise at least 14 days prior to the start date of the work.
- Public outreach for the upcoming work may also employ use of social media.
- Additional information for the public will be available on the project website.

- Permitting Division will be notified prior to the actual start date of the work per the conditions of Construction Hours Variance.
- Roads will maintain an accurate record of the work completed on this project per ongoing coordination with the contractor.
- Contact information during construction is as follows:
 - Victor Daggs, King County Roads, Construction Supervisor
206-423-1063, Victor.Daggs@kingcounty.gov
 - Fabia Fu, King County Roads, Resident Engineer
206-477-5826, ffu@kingcounty.gov
 - Roads 24-hour complaint/information number
206-477-8100

Thank you for your assistance with this project. If there are any questions, please call me at 206-263-8179 or email me at tanharris@kingcounty.gov.

Enclosures

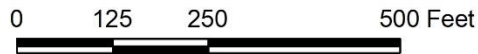
TH

cc: Jun Wang, Project Manager, Road Design and Traffic Unit



244th Avenue SE Slide Repair Project No. 1140858
Parcels within 500 Feet

- ★ Project Location
- 500-Foot Buffer
- King County Parcels



October 11, 2022



The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a survey product. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use of misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.

Equipment Table

Equipment	Sound Level (dBA) ^a					Mitigation Measures
	At 50 ft	At 100 ft	At 200 ft	At 300 ft	At 500 ft	
Air compressor	78	70	63	59	53	When possible, air compressors will be located in areas shielded from direct line of sight from residences or temporary noise shields will be used.
Chainsaw	84	76	69	65	59	Chainsaws will only be used during daytime hours.
Chipping hammer	85	77	70	66	60	When possible, contractor will locate shield between chipping hammers and area residents with direct line of sight.
Compactor	83	75	68	64	58	When possible, contractor will locate shield between compactors and area residents with direct line of sight.
Concrete hammer drill	85	77	70	66	60	When possible, contractor will locate shield between concrete hammer drills and area residents with direct line of sight.
Concrete truck	81	73	66	62	56	To the extent feasible, cement trucks will be used during daylight hours only.
Crane	81	73	66	62	56	To the extent feasible, cranes will be used during daylight hours only.
Dump truck	76	68	61	57	51	Non-pure tone back up alarms will be utilized; truck tailgate banging is not allowed.
Generator	81	73	66	62	56	When possible, generators will be located in areas shielded from direct line of sight from residences or temporary noise shields will be used.
Grinder	85	77	70	66	60	When possible, contractor will locate shield between grinders and area residents with direct line of sight.
Jackhammer	89	81	74	70	64	To the extent feasible, jackhammers will be used during daylight hours only.
Mini-excavator	81	73	66	62	56	Use of mini-excavators will be minimized to the extent feasible during nighttime work.
Pickup truck	75	67	60	56	50	Contractor shall avoid parking and idling vehicles next to residences.
Vac-truck	85	77	70	66	60	To the extent feasible, vac-trucks will be used during daylight hours only.

^aBased on published noise levels (L_{max} at 50 ft) for common construction equipment and soft-site noise attenuation (WSDOT Biological Preparation Manual, 2020 Update).